

From: 4C HSE Conference [info@4cconference.com]
Sent: 1/30/2018 12:49:09 PM
To: Wilwerding, Joseph [Wilwerding.Joseph@epa.gov]
Subject: Just over 2 months until 4C 2018...



April 3-5, 2018
San Antonio, Texas

The Premiere Collection of HSE Training Classes and Presentations

We're just over two months away from opening day of the 2018 4C Conference, and the lineup of training and presentations is the best yet.

Seats in training classes breakout presentation rooms are filling up fast. Check the training class list and list of submitted presentations to plan your 4C experience and register today to save your spot!

VIEW TRAINING COURSES →
VIEW PRESENTATIONS →
REGISTER FOR THE CONFERENCE →

You won't want to miss the 2018 breakout presentations. 4C has received over 60 amazing submissions including:

**Next Generation Enforcement: Environmental Enforcement in the
Trump Era**

Matt Thurlow - Baker & Hostetler LLP

Navigating New Rules for Startup, Shutdown and Malfunction Under the Refinery Sector Rule

Leann Johnson-Koch - Perkins and Coie LLP

The Top 10 Priorities in Air Permitting for Regulatory Changes

Toby Hanna - ERM

LDAR 2.0: LDAR for Environmental Compliance and LDAR for Operational Excellence

Steve Probst - 4C Marketplace

Benzene Fenceline Monitoring; Regulation Updates & Lessons Learned for Ongoing Compliance

Jesse Miller - Camsco

The [full 2018 presentation schedule is available](#), and features more than 60 cutting-edge presentations on topics covering nearly everything in the HSE field along with continuing education essential to professional growth in the HSE industry.

[SEE ALL THE PRESENTATIONS →](#)

Additionally, the 2018 conference will host more than 30 training courses. A few of which include:

Refinery Sector Rule Focused Compliance

Course Date: April 5, 2018

Since the February 1, 2016 promulgation date, refineries have been scrambling to meet compliance deadlines in the revised MACT Subparts CC and UUU regulations, collectively known as the Refinery Sector Rule (RSR). This workshop begins by providing an overview of the regulatory requirements and compliance deadlines of affected sources including storage vessels, process vents, fenceline monitoring, flares, catalytic cracking units, and other refinery process units (e.g., sulfur recovery units, reformers, and cokers). The remainder of the workshop will provide a more detailed and focused look at specific compliance elements for each affected source. The workshop will explore possible methods for identifying flare events, vent gas monitoring options and development of written plans for refinery flares. Establishing fenceline monitoring programs and managing data will also be covered. This workshop will also look at managing process vents and pressure relief device programs under the RSR. We will present shared learnings from development of RSR compliance programs when possible to assist refineries in achieving future compliance.

[More Info →](#)

Continuous Emissions Monitoring Systems (CEMS) Essentials

Course Date: April 4, 2018

The training session will cover the fundamentals of continuous emissions monitoring systems (CEMS) from the regulatory drivers requiring CEMS, to

CEMS equipment, design, control, and reporting software. The class will discuss the various types of CEMS including fully extractive cold/dry, hot/wet, dilution extractive, and in-situ as well as hardware including probes, sample line, coolers, filters, analyzers, controllers, and data acquisition and handling systems (DAHS).

Topics Covered: CEMS, DAHS, probes, coolers, filters, analyzers, FTIR, TDL, opacity, mercury, particulate monitors

[More Info →](#)

Oil & Gas Air Regulations - What You Need to Focus on Now

Course Date: April 4, 2018

The oil and gas sector has seen massive regulatory change since 2016, particularly with respect to air compliance requirements. Regulations have issued, withdrawn, and modified by multiple regulatory agencies. In addition, challenges to some of these regulations have been made in the courts. The end result is a confusing mix of regulations, policies and expectations.

This workshop will provide some clarity and direction about what the oil and gas sector should be doing now. While not providing formal legal guidance, the workshop will address the compliance challenges confronting upstream and midstream oil and gas companies in meeting EPA and BLM regulations, as well as some evolving issues at the State level. We will particularly focus on EPA's New Source Performance Standard (NSPS) OOOOa requirements around the implementation of a volatile organic compound (VOC) and methane leak detection and repair (LDAR) monitoring and reporting program as well as associated with the final Bureau of Land Management (BLM) venting and flaring rule (e.g., Waste Prevention) requirements. We will also provide some insights and approaches to recordkeeping and reporting approaches under these programs.

[More Info →](#)

LDAR Excellence

Course Dates:

April 4 - April 6, 2018

A 2.5-Day intense dive into best practices, continuous improvement and new-generation technology for all things Leak Detection and Repair / Fugitive Emissions. This workshop will feature discussion on LDAR program revalidation, as well as technology, tools and work practices to help elevate your LDAR program to excellence with cost-effective and efficient opportunities for improvement.

[More Info →](#)

LDAR – Beyond Basics and Underneath the Rules

Course Dates: April 4 - April 5, 2018

An in depth look at LDAR Basics from a fresh perspective.

[More Info →](#)

Advanced Topics in Quantitative Optical Gas Imaging

Course Date: April 5, 2018

Optical gas imaging (OGI) continues to gain acceptance in the petroleum and petrochemical industries for both safety and environmental applications. The new NSPS OOOOa and BLM regulations for the oil and gas sector both allow for OGI as the primary Leak Detection and Repair (LDAR) technology. These new regulations bring new requirements for OGI inspections and operators choosing to use OGI as a compliance tool. In addition, the field of OGI continues to advance with new methods, new sensor technology and new applications emerging. A QOGI method is now available to provide real-time measurements of leak rates.

This course will review the fundamental aspects of optical gas imaging and describe how they relate to the new OGI related regulations. The OGI related requirements for a OOOOa compliant monitoring plan will also be examined. A Quantitative Optical Gas Imaging method will be presented along with results from blind testing and side-by-side comparisons to other quantitative methods. Applications for QOGI in the oil and gas sector will be presented and discussed. The course will conclude with a survey of the latest developments in the field of Optical Gas Imaging with an emphasis on applications for the petroleum and petrochemical industries.

[More Info →](#)

CAD + Compliance Excellence (AutoCAD + Plant3D + Revit)

Course Dates: April 4 - 5, 2018

This 2-Day Workshop will foster a rich exchange of CAD knowledge and discussion on how CAD + Compliance Professionals can work together to elevate various compliance programs, including but not limited to PSM, LDAR, BWON, and RSR. On the agenda: easy-and-inexpensive electronic P&ID highlighting, as-built updates of P&IDs and isometrics, as well as 3D laser scan technology.

[More Info →](#)

Optical Gas Imaging

Course Date: April 4, 2018

Offered by FLIR Systems, this course covers the regulatory framework for optical gas imaging, the OGI certification process, how to use the IR camera to find leaks, how optical gas image is a combination of art, science, technique, and interpretive skills, and the basic safety practices for doing an OGI inspection.

[More Info →](#)

Video Imaging Spectral Radiometry as an Alternative Monitoring Method for the Refinery Sector Rule

Course Date: April 4, 2018

Instrumentation for flare monitoring has been focused on the feed side, e.g., flow rate of vent gas and supplemental fuel, composition, net heating value,

steam or air flow rate, etc. There is no instrumentation to provide feedback to the flare operator on how the flare is actually performing. This is due to the lack of technology that can continuously monitor the result of flare combustion. While other process units such as furnaces, reactors, scrubbers, etc. always have instruments to provide feedback, the flare is operated in the dark.

Now a new technology has been developed that can be used to remotely monitor flare performance and provide instant feedback to a flare operator. The technology is called Video Imaging Spectro-Radiometry (VISR), and it has been validated with full scale flares and extractive sampling tests. With VISR, a flare operator will have a dashboard that provides essential flare operation and performance parameters including directly measured combustion efficiency, level of smoke, flame stability, flame size, and heat released from flare combustion. With this flare dashboard, an operator finally has the information needed to operate the flare at peak performance day or night.

This course will cover flare feed side instrumentation (flow, temperature, pressure, online gas chromatography (GC) and calorimeter), VISR technology, and flare dashboard. Relevant regulatory compliance topics such as flare monitoring requirements in the Refinery Sector Rule will also be included in this class.

[More Info →](#)

Guideware Software Training

Course Date: April 5, 2018

Learn what is new in the GuideWare LDAR software, and how to utilize it's newest, advanced features to enhance and improve your LDAR program.

Topics Covered:

What's new in GuideWare version 2.5

Using Smart P&ID Drawings for your Inventory Jobs

GuideWare's New Scheduling Tool

Introducing 'GuideWare Connect' Mobile Connection Application

Database QA/QC – The Snapshot Reporting Tool

Audit Survival Tools – Learn how to audit your own data

Setting up OOOOa in GuideWare

Inspection Workflow with an Android Tablet and the IR Camera

Introducing GuideWare Fenceline Monitoring Web Application

[More Info →](#)

The [full class listing](#) is available, and offers training opportunities covering multiple areas of discipline.

[SEE ALL TRAINING COURSES →](#)

You can see all the [conference registration](#) options here along with information on accommodations and other great conference events.

If you have any questions about registration, payment, or the checkout process, email us at info@4cconference.com and we'll be happy to help out.

See you in San Antonio!

**Contact us to reserve your space
on the expo floor:**

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